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l	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
_	10/627,197	07/25/2003	James W. Fronsdahl	6213 USA/AGS/IBSS	2705	
	41161 DUGAN & DU	7590 02/12/200 IGAN PC	, , , , , , , , , , , , , , , , , , ,	EXAMINER		
	55 SOUTH BROA TARRYTOWN, N	OADWAY.	•	HUSBAND	HUSBAND, SARAH E	
			·	. ART UNIT	PAPER NUMBER	
				1746		
_				<del></del>		
SHORTENED STATUTORY PERIOD OF RESPONSE		Y PERIOD OF RESPONSE	MAIL DATE	ATE DELIVERY MODE		
3 MONTHS			02/12/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		1	Application No. Applicant		Applicant(s)	it(s)				
Office Action Summary			10/627,197	,	FRONSDAHL ET AL.					
			Examiner		Art Unit					
		8	Sarah E. Hı	usband	1746					
Period fo	The MAILING DATE of this communic or Reply	cation appea	ars on the	cover sheet with the c	orrespondence a	ddress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status						•				
1)	Responsive to communication(s) filed	d on <i>22 Nov</i>	ember 20	<b>26</b> .						
2a)□	•	b)⊠ This ad			·					
3)										
, —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposit	on of Claims									
4)🛛	Claim(s) 1-20 is/are pending in the ap	oplication.			•					
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	Claim(s) is/are allowed.									
6)⊠	6)⊠ Claim(s) <u>1-20</u> is/are rejected.									
7)	Claim(s) is/are objected to.			•						
8)[	Claim(s) are subject to restrict	ion and/or e	election red	quirement.						
Applicat	on Papers									
9)[	The specification is objected to by the	Examiner.		·						
10)🛛	The drawing(s) filed on 22 November	<u>2006</u> is/are:	: a)⊠ aco	cepted or b) object	ed to by the Exa	miner :				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including	the correction	n is require	d if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).				
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (	under 35 U.S.C. § 119				·					
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority of				N-					
	2. Certified copies of the priority documents have been received in Application No									
	3. Copies of the certified copies of the priority documents have been received in this National Stage									
* 0	application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.										
A44- 1	M.A									
Attachmen	t(s) e of References Cited (PTO-892)			4) Interview Summary	(PTO-413)					
	e of References Cited (P10-692) e of Draftsperson's Patent Drawing Review (P1	O-948)	•	Paper No(s)/Mail Da	ite					
3) 🛭 Infor	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	·		5)  Notice of Informal P 6)  Other:	atent Application					

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### **DETAILED ACTION**

# Response to Arguments

Applicant's arguments, see Remarks, filed 11/22/2006, with respect to the objection to the drawings have been fully considered and are persuasive. The objection of the drawings has been withdrawn.

Applicant's arguments, see Remarks, filed 11/22/2006, with respect to the claim objection have been fully considered and are persuasive. In light of the amendments, the objection of the claims has been withdrawn.

Applicant's arguments, see Remarks, filed 11/22/2006, with respect to the rejection(s) of claim(s) 1-20 under 35 U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Inoue (US 4052211).

Applicant's arguments, see Remarks, filed 11/22/2006, with respect to the double patenting rejection have been fully considered and are persuasive. The double patenting rejection of the claims in view of Mintz and Banholzer has been withdrawn. However, upon further consideration, a new rejection is made over White in view of Inoue.

The rejection stands as follows.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the

subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 11 and 13-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over White (JP 2001007068) in view of Inoue (US Patent No. 4,052,211).

White discloses an SRD having a substrate support, fluid source, and shield. White also discloses the shield is hydrophilic and the support holds and rotates the substrate vertically. White further discloses the multiple shields positioned above the substrate, the shield is movable and is downwardly sloped (see figures and also entire document; translation available in US 6,516,816). White does not specifically disclose the shield has a particle-blasted finish to increase the hydrophilic properties. Inoue discloses that a surface is rendered hydrophilic by using a graining procedure such as sand blasting (col. 10, ll. 18-23). Therefore, at the time of the invention, it would be obvious to one of ordinary skill in the art to modify sand blast the hydrophilic surface of White as shown by Inoue for the benefit of increasing the hydrophilic properties of the surface.

Claims 9, 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over White and Inoue as applied to claims 1-8, 11 and 13-20 above, and further in view of Jaffe (US Patent No. 5,476,520).

White and Inoue disclose the apparatus shown above in the 103(a) rejection. They do not specifically disclose the shield is made of polycarbonate. Jaffe discloses a shield can made of polycarbonate (col. 3, ll. 32-48). At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify White and Inoue with a polycarbonate

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shield as shown by Jaffe because polycarbonate is an alternative shield making material which is known in the art (col. 3, ll. 32-48).

# Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-8, 11 and 13-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 5-8, 11-15, 17, 24-26, 32, 33, 38-41 and 47 of U.S. Patent No. 6516816 in view of Inoue. '816 discloses a support, source of fluid and shield as the current application but does not disclose the particle blasting. Inoue discloses particle blasting of a shield to provide hydrophilic properties to a surface. At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify '816 with Inoue for the benefit of increasing the hydrophilic properties.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah E. Husband whose telephone number is (571) 272-8387. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SUPERVISORY PATENT EXAMINER

SEH